

TEACHING INTERESTS

Undergraduate Courses: Lectures and labs in Analytical Chemistry (theories and concepts), Environmental Chemistry, General Chemistry, Instrumental Analysis, Chromatography, Organic Chemistry, Nursing Chemistry, and Spectroscopic Identification of Organic Compounds.

PROFESSIONAL EXPERIENCE

Aug. 2014 - : Associate Professor, University of Louisiana at Lafayette, LA
Aug. 2011- 2014: Assistant Prof., University of Louisiana at Lafayette, Lafayette, LA
2007- Aug. 2011: Instructor, University of Louisiana at Lafayette, Lafayette, LA
2005-2006: Adjunct Prof., University of Louisiana at Lafayette, Lafayette, LA
1998 & 2000-2004: Teaching Assistant, Ohio University, Athens, OH.
1999-2000: Teaching Assistant, University of Houston, Houston, TX.
1989-1998: Researcher, National Institute of Oceanography and Fisheries,
Alexandria, Egypt.
1985-1989: Teaching Assistant, Alexandria University, Alexandria, Egypt.

RESEARCH EXPERIENCE and INTERESTS

- Monitoring the environmental pollution caused by chlorinated hydrocarbons and petroleum hydrocarbons in biota and sediment samples using gas chromatography technique. [Certified Trainee by Marine Environment Laboratories (Monaco) International Atomic Energy Agency] 1992-1998.
- Extraction and removal of pollutants from environmental samples and removal of heavy toxic metals from environmental systems.
- Fabrication of microsensors for direct electrochemical measurements of nitric oxide, superoxide and peroxyxynitrite in biological samples from rats, mice and rabbits.
- Synthesis of porphyrin analogs and metal complexes that can be used as coatings for microsensors.
- Dye removal using ecofriendly adsorbents.
- Extraction and purification of β -carotene and ascorbic acid from different types of algae. Characterization of these antioxidants using high performance liquid chromatography and spectrophotometric techniques.
- Synthesis of polynuclear Cu(II), Co(II), Mn(II), and Ni(II) complexes used in the DNA cleavage.
- Hands on GC, GC-MS, Atomic absorption, ICP, and UV-vis instruments.

ACTIVITIES

- Supervises undergraduate research (all students in my group either persuade their studies in graduate school, medical, pharmacy or chemical engineering school).
- Advisor for pre-pharmacy students since 2007-2008.

- An active member in several committees (safety, hiring, instructors' teaching evaluation, rubric preparation, curriculum and renovation committees).
- A member in choosing new books for general, analytical and nursing chemistry.
- Serves as a judge in the Science Olympiad.
- Serves in the Science Day.
- Serves as a judge for the Louisiana Region IV Science and Engineering Fair.
- Serves as a judge for the evaluation of the Louisiana Instructional Mini Grand (Collage of Sciences and Arts).